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1 [Mobile phones may be the right devices for supporting developing world accessibility, but is the WWW the right service delivery model?](#)  
Tapan S. Parikh  
May 2006 W4A: Proceedings of the 2006 international cross-disciplinary workshop on Web accessibility (W4A): Building the mobile web: rediscovering accessibility?  
Publisher: ACM  
Full text available: [pdf \(163.00 KB\)](#) Additional Information: full citation, abstract, references, index terms  
Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 99, Citation Count: 0  
In this paper we detail the synergies we have observed between the features and limitations of mobile phones, and the usability and accessibility requirements of rural developing world users. This includes support for sequential interaction, multimedia ...  
Keywords: ICT, mobile computing, mobile phones, novice users, rural development

2 [A service management framework for M-commerce applications](#)  
Gary Shih, Simon S. Y. Shim  
June 2002 Mobile Networks and Applications, Volume 7 Issue 3  
Publisher: Kluwer Academic Publishers  
Full text available: [pdf \(650.12 KB\)](#) Additional Information: full citation, abstract, references, cited by, index terms  
Bibliometrics: Downloads (6 Weeks): 35, Downloads (12 Months): 245, Citation Count: 4  
Mobile commerce (m-commerce) refers to an ability to conduct wireless commerce transactions using mobile applications in mobile devices. M-commerce applications can range from as simple as an address book synchronization to as complicated as credit card ...  
Keywords: JINI, WAP, m-commerce, management, mobile devices

3 [Quality Attributes for Service-Oriented Architectures](#)  
Liam O'Brien, Paulo Merson, Len Bass  
May 2007 SDSOA '07: Proceedings of the International Workshop on Systems Development in SOA Environments  
Publisher: IEEE Computer Society  
Full text available: [pdf \(246.74 KB\)](#) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 66, Downloads (12 Months): 773, Citation Count: 0  
The SOA approach is a very popular choice today for the implementation of distributed systems. The use of SOA or more specifically the Web services technology is an important architecture decision. An architect should understand how different quality ...

4 A composable framework for secure multi-modal access to internet services from Post-PC devices

Steven J. Ross, Jason L. Hill, Michael Y. Chen, Anthony D. Joseph, David E. Culler, Eric A. Brewer  
October 2002 *Mobile Networks and Applications*, Volume 7 Issue 5  
Publisher: Kluwer Academic Publishers

Full text available:  pdf(340.33 KB) Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 83, Citation Count: 1

The Post-PC revolution is bringing information access to a wide range of devices beyond the desktop, such as public kiosks, and mobile devices like cellular telephones, PDAs, and voice based vehicle telematics. However, existing deployed Internet services ...

Keywords: internet, middleware, post-PC, security, transcoding

5 A pluggable service-to-service communication mechanism for home multimedia networks

 Jin Nakazawa, Hideyuki Tokuda  
December 2002 *MULTI MEDI A '02: Proceedings of the tenth ACM international conference on Multimedia*

Publisher: ACM

Full text available:  pdf(436.61 KB) Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 69, Citation Count: 0

This paper proposes a pluggable service-to-service (S2S) communication mechanism in a middleware for home networks, called Virtual Networked Appliance (VNA) architecture. In the architecture, service description method and the plug-gable S2S communication ...

6 Efficient integration of web services with distributed data flow and active mediation

 David Liu, Jun Peng, Kincho H. Law, Gio Wiederhold  
March 2004 *ICEC '04: Proceedings of the 6th international conference on Electronic commerce*

Publisher: ACM

Full text available:  pdf(264.77 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 113, Citation Count: 0

This paper presents a loosely coupled service-composition paradigm. This paradigm employs a distributed data flow that differs markedly from centralized information flow adopted by current service integration frameworks, such as CORBA, J2EE and SOAP. ...

Keywords: active mediation, direct data transmission, handheld services, mobile class, service integration, web services

7 Interoperable Web services for computational portals

Marlon Pierce, Geoffrey Fox, Choonhan Youn, Steve Mock, Kurt Mueller, Ozgur Balsoy  
November 2002 Supercomputing '02: Proceedings of the 2002 ACM/IEEE conference on  
Supercomputing

Publisher: IEEE Computer Society Press

Full text available:  pdf(278.00 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 135, Citation Count: 6

Computational web portals are designed to simplify access to diverse sets of high performance computing resources, typically through an interface to computational Grid tools. An important shortcoming of these portals is their lack of interoperable and ...

8 The design and applications of a context service

 Hui Lei, Daby M. Sow, John S. Davis, II, Guruduth Banavar, Maria R. Ebling  
October 2002 ACM SIGMOBILE Mobile Computing and Communications Review,  
Volume 6 Issue 4

Publisher: ACM

Full text available:  pdf(87.81 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 198, Citation Count: 14

Context awareness enables applications to adapt themselves to their computing environment in order to better suit the needs of the user and the tasks. This paper describes a general middleware infrastructure for context collection and dissemination, ...

9 An architecture for secure wide-area service discovery

Todd D. Hodes, Steven E. Czerwinski, Ben Y. Zhao, Anthony D. Joseph, Randy H. Katz  
March 2002 Wireless Networks, Volume 8 Issue 2/3

Publisher: Kluwer Academic Publishers

Full text available:  pdf(365.66 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 113, Citation Count: 5

The widespread deployment of inexpensive communications technology, computational resources in the networking infrastructure, and network-enabled end devices poses an interesting problem for end users: how to locate a particular network service or device ...

Keywords: location services, name lookup, network protocols, service discovery

10 Semantically driven service interoperability for pervasive computing

 Declan O'Sullivan, David Lewis  
September 2003 MobiDe '03: Proceedings of the 3rd ACM international workshop on Data engineering for wireless and mobile access

Publisher: ACM

Full text available:  pdf(179.45 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 138, Citation Count: 2

The common vision of pervasive computing environments requires a very large range of devices and software components to interoperate seamlessly. From the assumption that

these devices and associated software permeate the fabric of everyday life, a massive ...

**Keywords:** DAML-S, pervasive computing, semantic interoperability, service composition, topic maps

**11 Certificate validation service using XKMS for computational grid**

 Namje Park, Kiyoung Moon, Sungwon Sohn  
October 2003 XMLSEC '03: Proceedings of the 2003 ACM workshop on XML security  
Publisher: ACM

Full text available:  pdf(7.01 MB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 126, Citation Count: 0

A computational grid is a hardware and software infrastructure capable of providing dependable, consistent, pervasive, and inexpensive access to high-end computational resource. There are many ways to access the resources of a computational grid, each ...

**Keywords:** GSI, XKMS, XML, XML security, certificate validation, grid, key management, security

**12 User-centric PKI**

 Radia Perlman, Charlie Kaufman  
March 2008 ITrust '08: Proceedings of the 7th symposium on Identity and trust on the Internet

Publisher: ACM

Full text available:  pdf(366.86 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 40, Downloads (12 Months): 40, Citation Count: 0

The goal of supporting Single Sign-On to the Web has proven elusive. A number of solutions have been proposed -- and some have even been deployed -- but the capability remains unavailable to most users and the solutions deployed raise concerns for both ...

**Keywords:** PKI, authentication, single sign-on, web services

**13 HISNs: distributed gateways for application-level integration of heterogeneous wireless networks**

Phone Lin, Huan-Ming Chang, Yuguang Fang, Shin-Ming Cheng  
January 2008 Wireless Networks, Volume 14 Issue 1

Publisher: Kluwer Academic Publishers

Full text available:  pdf(784.43 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 14, Citation Count: 0

Integration of different kinds of wireless networks to provide people seamless and continuous network access services is a major issue in the B3G network. In this paper, we propose and implement a novel Heterogeneous network Integration Support Node ...

**Keywords:** heterogeneous network integration support node (HISN), heterogeneous networks, personal mobility, service mobility, session mobility

**14 Ubiquitous computing using SIP**

 Stefan Berger, Henning Schulzrinne, Stylianos Sidiropoulos, Xiaotao Wu  
June 2003 NOSSDAV '03: Proceedings of the 13th international workshop on Network and

operating systems support for digital audio and video

Publisher: ACM

Full text available:  pdf(96.16 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 191, Citation Count: 4

In the past decade, there have been numerous efforts in ubiquitous computing, making computational resources or communication more widely available. We believe that it is time to move to a global-scale ubiquitous computing system that is securable, administered ...

Keywords: SIP, SLP, bluetooth, location based services, scalability, ubiquitous computing

**15 Flashproxy: transparently enabling rich web content via remote execution**

 Alex Moshchuk, Steven D. Gribble, Henry M. Levy  
June 2008 MobiSys '08: Proceeding of the 6th international conference on Mobile systems, applications, and services

Publisher: ACM

Full text available:  pdf(1.10 MB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 19, Citation Count: 0

It is now common for Web sites to use active Web content, such as Flash, Silverlight, or Java applets, to support rich, interactive applications. For many mobile devices, however, supporting active content is problematic. First, the physical resource ...

Keywords: active web content, binary rewriting, flash, proxy, web browsers

**16 The Active XML project: an overview**

Serge Abiteboul, Omar Benjelloun, Tova Milo

August 2008 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 17 Issue 5

Publisher: Springer-Verlag New York, Inc.

Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

This paper provides an overview of the Active XML project developed at INRIA over the past five years. Active XML (AXML, for short), is a declarative framework that harnesses Web services for distributed data management, and is put to work in a peer-to-peer ...

Keywords: Data exchange, Intensional information, Web services, XML

**17 People, places, things: web presence for the real world**

Tim Kindberg, John Barton, Jeff Morgan, Gene Becker, Debbie Caswell, Philippe Debatty, Gita Gopal, Marcos Frid, Venky Krishnan, Howard Morris, John Schettino, Bill Serra, Mirjana Spasojevic

October 2002 Mobile Networks and Applications, Volume 7 Issue 5

Publisher: Kluwer Academic Publishers

Full text available:  pdf(248.56 KB) Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 114, Citation Count: 16

The convergence of Web technology, wireless networks, and portable client devices

provides new design opportunities for computer/communications systems. In the HP Labs' "Cooltown" project we have been exploring these opportunities through an infrastructure ...

Keywords: location-aware computing, nomadic computing, physical-virtual linkage, ubiquitous computing, world wide web

18 [The impact of research on middleware technology](#)



Wolfgang Emmerich, Mikio Aoyama, Joe Sventek

January 2007 ACM SIGSOFT Software Engineering Notes, Volume 32 Issue 1

Publisher: ACM

Full text available: [pdf\(2.24 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 60, Downloads (12 Months): 480, Citation Count: 0

The middleware market represents a sizable segment of the overall Information and Communication Technology market. In 2005, the annual middleware license revenue was reported by Gartner to be in the region of 8.5 billion US Dollars. In this article we ...

19 [MAN@RCHISES: new added-services architecture in automatic management networking](#)

Tuan Loc Nguyen, Laurent Ouakil, Guy Pujolle, Abbas Jamalipour

January 2006 International Journal of Network Management, Volume 16 Issue 1

Publisher: John Wiley & Sons, Inc.

Full text available: [pdf\(401.28 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 71, Citation Count: 0

The environment of the telecommunications service operators is particularly complex today with the integration of very diverse services coming from the Internet. This complexity arises from an integration between telecommunications and the Internet. ...

20 [Web browser accessibility using open source software](#)



Željko Obrenović, Jacco van Ossenbruggen

May 2007 W4A '07: Proceedings of the 2007 international cross-disciplinary conference on Web accessibility (W4A)

Publisher: ACM

Full text available: [pdf\(505.76 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 47, Downloads (12 Months): 433, Citation Count: 0

A Web browser provides a uniform user interface to different types of information. Making this interface universally accessible and more interactive is a long term goal still far from being achieved. Universally accessible browsers require novel interaction ...

Keywords: middleware, open source software, software platform, user interfaces, web accessibility

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